Arizona Department of Water Resources

Water Management Support Section P.O. Box 33589 Phoenix, Arizona 85067-3589 (602) 771-8500 • (800) 352-8488 www.azwater.gov

Request to Change Well Information

Review instructions prior to completing form in black or blue ink.

You must include with your Notice:

> check or money order for any required fee(s)

Authority for fee: A.A.C. R12-15-151(B)(4)(a), A.R.S. § 45-113(B)

FILE NUMBER

WELL REGISTRATION NUMBER

55 - 555832

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ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION MAIL TO: P.O. BOX 458 - PHOENIX, ARIZONA 85001-0458

FOR INFORMATION: CALL MONICA ORTIZ AT (602) 417-2470



FORM TO CHANGE WELL INFORMATION OWNERSHIP * DRILLER

Please complete the appropriate section of this request form and return to P.O. Box 458, Phoenix, Arizona 85001-0458 or hand deliver to the address above with applicable fee. NOTE: A.R.S. §45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

<u>SAVE THIS FORM</u> TO REPORT FUTURE CHANGES IN OWNERSHIP, <u>CHANGES IN ADDRESS</u>, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1.	CHANGE OF WELL INFORMATION: (NO FEE REQUIRED)									
	NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.									
	WELL REGISTR	ATION NO. 55-		F	ILE NO:					
	If know, I/We req	uest the following w	ell information be c	hanged:						
	Date	Signa	ture of Current Well	Owner						

2.	STATEMENT OF	WELL OWNERS	HIP: (\$10.00 FEE R	EQUIRED)						
		ange consists of mor a separate fee of \$1		the names are con	nmon; attach a \$	10.00 fee. Otherwise,				
	I, BHP Copper	Inc.	, state that I am the	Previous/ New Ov	vner of the well	described below:				
	NW ¹ / ₄ SW 40 A		of Section 28	Townshi	p 4 South	Range 9 East				
	Assessor's tax par	cel number of the pa	arcel on which the w	ell is located: Boo	okMap	Parcel				
	Well Registration	No. 55- <u>555832</u>		File No.		(if known)				
	BHP Copper I	nc.		Florence Co	pper Inc.					
	PRINT Previous			PRINT New C						
	7400 N. Oracle I	Road, Suite 131		975 Johnson F		ite 450				
	Mailing Address			Mailing Addre	ess					
	Tucson	λZ	85704	Atlanta	GA	30342				
	City	State	Zip	City	State	Zip				
	520-575-5675			404-495-9577						
	Telephone Numl	per		Telephone Nu						
				Attn: Merrill	Mining, L.L.C	. 1				
	Signature of Pre	vious/ New Well O	wner: By:	pla_		_ Date 12501				
			Its:	las det		ιζ				
DWR 5	5-71a (Rev 1/99)									

1044514v1

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION MAIL TO: P.O. BOX 458 - PHOENIX, ARIZONA 85001-0458 FOR INFORMATION: CALL MONICA ORTIZ AT (602) 417-2470

3.	REQUEST TO CHANGE WELL DRILLE			ER \$10.00 FEE REQUIRED FOR EACH WELL							
		st must be received be completion of the we		and the Drill Card issued to the new drilling firm prior to the							
	Well Regis	tration No. 55-		FILE N	O						
	Original V	Original Well Driller				New Well Driller					
	Mailing A	.d d ress									
	City State Zip Telephone Number		Zip		City	State	Zip				
			Telephone Number								
	ADWR L	icense Number			ADWR Lic	cense Number	ROC License Category				
	Typed or	Typed or Printed Name of Well Owner			Signature	of Well Owner	Date				

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

DWR 55-71a (Rev 1/99) 1044514.1

RECORDS MGT

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street Phoenix, Arizona 85004

WELL DRILLER REPORT

This report should be prepared by the <u>driller</u> in all detail and filed with the Department within 30 days following completion of the well.

1.	STEWART I 306 AIRPOF MILAN NM		CO.						
2.	Owner Name: BHP								
	Address: 14605		y F	1084	nce		AZ	<i>2</i> 686	3463
		Street	'	City			State		Zip
2	Togetien. 45 N/	S 9E E/W	28	1.4	wil	1/4 <u>Su</u>	\ 14	<\	
э.	Location: 48 N/3 Township	Range	Section	_ */4 _	10-acre	40-ac	74 re	160-acre	-
	Тонныцр	nunge	Section		10-4610	-10-40	10	100 4010	•
4.	Well Registration No.	55- <u>655832</u>				(Require	d)		
5	Downit No.					(If issued)			
J.	Permit No					(II ISSUCU)			
		DE	SCRIPTION	OF	WELL				
		~	, , , , , , , , , , , , , , , , , , , ,	-					
6.	Total depth of hole	1282			ft.				
7.	Type of casing PV	c and LCS							
8.	Diameter and length o	f casing 5 in.	from 1272	to_7	-a ,	in fro	m	to	
9.	Method of sealing at r	eduction points							
10.	Perforated from	to T	,from		to	fron	α	to	
	Size of cuts			f cuts			-		
12.	If screen was installed	: Length 2/6	ft. D	iam	5	in	. Type P	VC, Sch 80	, 080 SLOT
	Method of construction			_					
		(drilled, dug, drive		, etc)					
14.	Date started	· · · · · · · · · · · · · · · · · · ·	13_			1946			
		Month	Day		<u>-</u>	Year	•		
15.	Date completed	April	17			1996			
	-	Month	Day			Year			
16.	Depth to water	15.2			ft. (If	flowing we	11, so st	ate)	
17.	17. Describe point from which depth measurements were made, and give sea-level elevation if available 2 Feet Above ground Level								
18.		method of flow reg							
	II IIOWING WOM, butto								
19.	•								
19.	Remarks:					DO NOT WR OFFI	ITE IN T		
19.	•					OFFI	CE RECO		
19.	•				Registratio	OFFI on No. 55-555	CE RECO		
19.	•				Registratio	OFFI	CE RECO		
	•				Registration File No. D Received	OFFI on No. 55-555	CE RECO 832	ORD By	96

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	75	Allevium - with Sands and gravels - Sand from very course to five, Gravels 1/2" to 1" upper basin fill - Poorly concered sands & gravels with
75	350	upper 545m fill - Poorly concided strops & gravels with
350	940	Lower BASIN Fill - C-emertel & moderately SARds And GALLE
940	12.82	interbedded Clays. Lower Basin fill - Cementel & moderately Sands And gravels with interbedded Brown Clays ranging 50% to 10%. Basalt Bedrock - granite & quarte guls with brown for to purple interbedded clays. Chays range 10% to 30%

I hereby certify that this well was drilled by me(or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name	e: <u>Slewa</u>	at Brothers U	hillian Co.
PU Box	2067		
Street Milan	NM	87021	(505)-287-2981
City	State	Zip	Phone No.
gell T	de 2. C	&	5-22-96
Signature of Dr	iller		Date



ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street Phoenix, Arizona 85004-3903

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-555832

AUTHORIZED DRILLER:

STEWART BROS. DRILLING COMPANY

LICENSE NO: 314

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT:

(BROWN & CALDWELL (M. GLOTFELTY 602 22-4498)

WELL OWNER:

BHP

The well(s) is/are to be located in the:

NW 1/4 of the SW 1/4 of the SW 1/4 Section 28 Township 4 SOUTH Range 9 EAST

No. of Wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 19TH DAY OF MARCH, 1997.

CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING





FILING FEE \$10.00

ARIZONA DEPARTMENT OF WATER RESOURCES Operations Division 15 SOUTH 15TH AVENUE PHOENIX, ARIZONA 85007

MONITOR/PIEZOMETER WI

FILING FEE \$10

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.

1.	WELL LOCATION:	7.	Consulting Firm: Brown & Caldwell	10.	
	4 NS 9 6/W 28		Contact Person: M. Glotfelty		April l 1996 Month Day Year
	Township Range Section		Phone: (602) 222-4498	11.	Period well will remain in
	NW 1/4 SW 1/4 SW 1/4 10 ACRE 40 ACRE 160 ACRE	8.	Purpose of well drilled pursuant to this notice		use 10 Months/Kears
2.	Position location of the well on the land:		MonitorXX	12.	For monitoring wells, is pump equipment to be installed?
MV	Latitude 33 0 02 54 "		Piezometer		YesX No
•	Tongitude 0 " County: Pinal	9.	Well Registration Number		(a) If yes, design pump capacity(D_GPM
4.	Owner of the land of wellsite:		55		water sampling
	Name 14605 E. Hunt Highway Address	: - [DO NOT WRITE IN THIS SPACE OFFICE RECORD	13.	Drilling firm: Stewart Bros. Drilling Co Name 306 Airport Road P. O. Box 2067
	Florence, AZ 85232 City State Zip	- :	File No. D(4-9) 28 ccb	.	Address Milan NM 87021
5.	Lessee of the land of wellsite:	:	Filed 3-20-96 By 811		City State Zip
	Name	-	InpuENTERED APPBy 8 1996	-	DWR License No. 314
	Address	-	DUPLICATE		A-04 ROC License classification
6 .	City State Zip Owner of well:	ì	Mailed 4-30-91 By 80 Registration 55- 555832	14.	Is the proposed wellsite within 100 fe of a septic tank system, sewage disposal area, landfill, hazardous was
υ.	Name 14605 E. Hunt Highway	-	AMA/INA Pinal	-	facility, storage area of hazardous material or petroleum storage areas and tanks?
	Address Florence, AZ. 85232 City State Zip	- -	W/S <u>\\%</u> S/B <u>\\</u>	-]	Yes No_X
16.	Proposed method of abandonment of well aft	ter pr	oject is completed: in accordance with	ı Al	WR rule R12-15-816
17.	Is this well to monitor existing contamination compliance monitor wells:		Potential contamination X APP		Please explain: point of
1. 2. 3.	Fill out this form in <u>DUPLICATE</u> and send For specific instructions, limitations and con Must be signed by land owner or lessee.	dition	GENERAL INSTRUCTIONS H \$10.00 FEE to 15 South 15th Avenue, Phoenix, as, see the reverse side of this form.	, AZ 8	35007.

4. Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may not proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that understand the conditions set forth on the reverse side of this form.

John T. KLIWE Typed or Printed Name

Signature [X] Land Owner [] Lessee of wellsite

31 19 196 Date

P ford	A
4	

Second construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? WELL CONSTRUCTION PLAN a) Drilling method (mud rotary, hollow-stem auger, etc.) Mud rotary b) Borehole diameters: 14 1/2 inches from 0 feet to 19 feet. a 3/4 inches from 19 feet to 1350 feet. c) Casing materials (EVC, steel, hollow-stem auger, etc.) material LCS diameter 9 5/8 inches from -1 feet to 530 feet material LCS diameter 5 9/16 inches from -2 feet to 530 feet material LCS diameter 5 9/16 inches from -2 feet to 530 feet material LCS diameter 5 9/16 inches from -2 feet to 530 feet material Sealing at reductions 4 1/2 feet from -2 feet to 1340 //30 feet material Fine Sand method tremie from 0 feet to 1120 feet material Fine Sand method tremie from 0 feet to 1120 feet feet material Silica Sand from 1120 feet to 1350 feet material Silica Sand from feet to 1350 feet g) Perforations or screen specifications: type PVC 080-inch slots from from feet to 1330 feet type PVC 080-inch slots from feet to 1330 feet type PVC 080-inch slots from 1130 feet to 1330 feet type PVC 080-inch slots from feet to feet from feet to feet h) Method of well development (bail, air lift, surge) Air lift i) Will surface or conductor casing extend above grade: Yes No 20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified. CONDITIONS 1 Construction and abandonment standards for all wells shall be in accordance with AAC R12-15-811 and R12-15-816. II. Drilling of the well shall be completed within one (1) year after the date of Notice. IV Pump equipment may not be installed on a well drilled for piezometer purposes.	18.	If constructi	on plans have be	en coordinate	d with Ariz	ona Dep	artment o	of Envi	ronmenta	al Quality	, who is the
a) Drilling method (mud rotary, hollow-stem auger, etc.) b) Borehole diameters: 14 1/2 inches from 0 feet to 19 feet. c) Casing materials (PVC, steel, hollow-stem auger, etc.) material LCS diameter 9 5/8 inches from -1 feet to 19 feet material LCS diameter 5 5/16 inches from -2 feet to 530 feet diameter 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		If constructi		en coordinate	d with Ariz	ona Dep	artment o	of Wate	r Resour	ces, who i	s the agency
b) Borehole diameters: 14 1/2 inches from 19 feet to 1350 feet. c) Casing materials (PVC, steel, hollow-stem augur, etc.) material LCS diameter 9 5/8 inches from -1 feet to 19 feet material LCS diameter 5 9/16 inches from -2 feet to 530 feet material LCS diameter 5 9/16 inches from -2 feet to 530 feet with Method of sealing at reductions we 4 1/2 well be 1/2 Cons 530 we will 1340 1/30 MpC e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated) material Cement Grout method tremie from 0 feet to 1110 feet material Fire Sand method tremie from 1110 feet to 1120 feet f) Filter packs (state material) material Silica Sand from 1120 feet to 1350 feet material Silica Sand from from feet to feet g) Perforations or screen specifications: type PVC .080-inch slots from 1130 feet to 1330 feet type PVC .080-inch slots from 1130 feet to 1330 feet type PVC .080-inch slots from 130 feet to 1411 feet to 1411 feet type Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified. CONDITIONS 1. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816. 21. Drilling of the well shall be completed within one (1) year after the date of Notice. 22. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified. CONDITIONS 1. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816. 23. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified. CONDITIONS 24. Very proper state of the steel casing depth in feet below land surface, and details of vault, if specified. CONDITIONS 25. Very proper state of the steel casing depth in feet to 1350 feet to	19.				•		Mad we	+- 2017			
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type from feet to feet h) Method of well development (bail, air lift, surge) Air lift i) Will surface or conductor casing extend above grade: Yes X_No		-	_			£			foot to	7.000	fort.
h) Method of well development (bail, air lift, surge) Air lift i) Will surface or conductor casing extend above grade: Yes X No Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified. CONDITIONS I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816. II. Drilling of the well shall be completed within one (1) year after the date of Notice. III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells. IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total. V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."			PVC .080-1	nch slots							
 Will surface or conductor casing extend above grade: Yes X No			efll daalan	and Chail ain l	:6:		1	····-	- reer to_		reet
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cover or at the top of the steel casing. Identification information will include well registration number."		may exceed	oo ganons per IIII	nute and an a	amuai yolu	nie or 10	acre reet	wtai.			
VI. Special construction standards required pursuant to A.A.C. Rule R12-15-821:	V.										
	. VI.	Special const	truction standard	ls required pu	irsuant to A	.A.C. Rı	ıle R12-1	5-821:			

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P. O. BOX 458 - PHOENIX ARIZONA 85001-0458

Phone (602) 417-2470

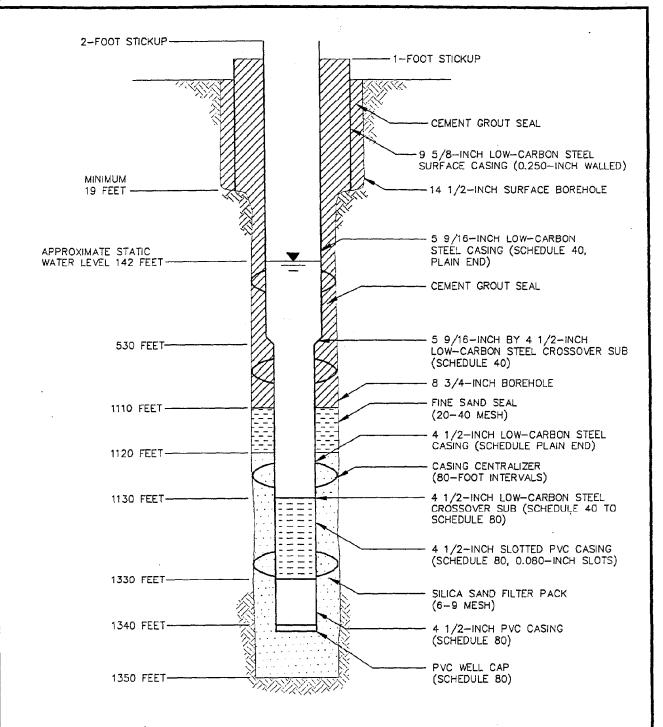
COMPLETION REPORT

(Pump Installation Report)



- 2. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operations. For a flowing well the shut-in pressure should be measured in feet above the land surface or in pounds per square inch at the land surface.
- 3. The static groundwater level should be measured in feet from the land surface immediately prior to the capacity test.

 The tested pumping capacity of the well in gallons per after continuous operation for at least 4 hours and 			
REGISTRATION NO: 55- 555833	FILE N	o: 0(4-9)	28 CCB
LOCATION OF THE WELL:			
Township Range	Section 1	4_10-acre 14_ <u>5</u>	5W 1/4 5W acre 160-acre
EQUIPMENT INSTALLED:			
Kind of pump <u>Stainless Steel Sub</u> Turbine, Submersible, Centrifugal, etc.			
H.P. Rating of MotorPump	ping Capacity 160 Sep	Date Pump Inst	alled 50-96
WELL TEST:			
Test pumping capacity			
Method of Discharge Measurement 5	Sallon Bucke Weir, orifice, current mete	<u>† E 546</u> er, etc.	ppwatch_
Static Groundwater Level 144.15	ft, Drawdov	wn 199.0	<u>Xo</u>
Total Pumping Lift	ft. Drawdo	wn(Flowing We	lbs
I HEREBY CERTIFY that the above statements are	true to the best of my knowledge	and belief.	
BHP Copper			
Print Well Owner's Name Florence Project 14605 East Hunt High Florence, AZ 8523	way 2	City	State Zip 3 26 9 9
Signature of Well Owner. (520) 763-4711 Fax: (520) 768-5090	Phone Number	Λ ,	Date
DWR 55-56 (Rev 6/98)	Phone Number Joseph De Mar 3 0 1999	. Liolog	13/2/ (a)
A.S.	O 1999	Mails	1 2 2 6 199



NOT TO SCALE

NOTES:

- 1. PVC = POLYMNYL CHLORIDE
- 2. ALL DIAMETERS ARE O.D.
- 3. DEPTHS ARE PRELIMINARY AND WILL BE BASED ON LOCAL GEOLOGY AND WILL BE DETERMINED BY THE CONSULTANT.
- 4. ANTICIPATED DEPTH TO BEDROCK = 1080 FEET

BROWN AND CALDWELL

Figure 2

A_{OX}

MONITOR WELL

DESIGN

BHP

Florence, Arizona

355003 02-26-95 Robertk

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004 Telephone (602) 417-2470 Fax (602) 417-2422

April 4, 1996

BHP 14605 E HUNT HIGHWAY FLORENCE AZ 85232

RE: Registration No. 55-555823 THRU 55-555834

File No. VARIOUS

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

Sincerely,

Sylvia Valdez Water Resource Technician Groundwater Section

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street Phoenix, Arizona 85004-3903

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-555832

AUTHORIZED DRILLER: STEW

STEWART BROS. DRILLING COMPANY

LICENSE NO: 314

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT:

(BROWN & CALDWELL (M. GLOTFELTY 602 22-4498)

WELL OWNER:

BHP

The well(s) is/are to be located in the:

NW 1/4 of the SW 1/4 of the SW 1/4 Section 28 Township 4 SOUTH Range 9 EAST

No. of Wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 19TH DAY OF MARCH, 1997.

CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING

